

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	0	"10722157"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 18:26
S2	1	"10/722157"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 15:56
S3	2	"11034321"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 15:56
S4	203764	(piezoelectric or PZT)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 18:42
S5	31452	(piezoelectric or PZT) and actuator	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 18:42
S6	1841	(piezoelectric or PZT) and actuator and (roughness or flatness)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 18:43
S7	793	(piezoelectric or PZT) and actuator and (flatness)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 18:43
S8	1	(piezoelectric or PZT) and actuator and (flatness) and unevenness	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 18:45

## EAST Search History

S9	223	(piezoelectric or PZT) and actuator and (flatness) and dielectric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 18:45
S10	117	(piezoelectric or PZT) and actuator and (flatness) and dielectric and ceramic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 18:47
S11	21	((piezoelectric or PZT) adj actuator) and (flatness) and dielectric and ceramic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 19:13
S12	1	((piezoelectric or PZT) adj actuator) and (flatness) and dielectric and ceramic and porosity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 18:52
S13	216	((piezoelectric or PZT) adj actuator) and (flatness)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 19:13
S14	24	((piezoelectric or PZT) adj actuator) same (flatness)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 19:25
S15	242	((piezoelectric or PZT) adj actuator) and zirconia	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 19:25
S16	135	((piezoelectric or PZT) adj actuator) and zirconia and crystal	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 16:34

## EAST Search History

S17	15	((piezoelectric or PZT) adj actuator) and zirconia and crystal and flatness	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 13:21
S18	105	264/671.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 13:13
S19	36	((piezoelectric or PZT) adj actuator) and "264"/\$8.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 13:30
S20	2	((piezoelectric or PZT) adj actuator) and "264"/\$8.ccls. and flatness	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 13:37
S21	30	((piezoelectric or PZT)) and "264"/\$8.ccls. and flatness	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 13:37
S22	6	("4019915"   "4078938"   "4255272"   "4766671"   "5085720").PN. OR ("5527501").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/24 15:50
S23	57	("3948706"   "4137628"   "4345955"   "4490429"   "4510000"   "4620264"   "4641425"   "4654095"   "4680859").PN. OR ("4766671").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/24 16:34
S24	12	("3948706"   "4137628"   "4345955"   "4490429"   "4510000"   "4620264"   "4641425"   "4654095"   "4680859").PN. OR ("4766671").URPN. and flatness	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/24 16:31
S25	10	("3948706"   "4137628"   "4345955"   "4490429"   "4510000"   "4620264"   "4641425"   "4654095"   "4680859").PN. OR ("4766671").URPN. and flatness and porosity	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/24 16:31

## EAST Search History

S26	7	((piezoelectric or PZT) adj actuator) and flatness and porosity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 16:37
S27	101	((piezoelectric or PZT)) and flatness and porosity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 16:48
S28	6	((piezoelectric or PZT)) and flatness.clm. and porosity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 16:38
S29	2	((piezoelectric or PZT)) and flatness.clm. and porosity.clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 16:38
S30	35	((piezoelectric or PZT)) and flatness and porosity and (perovskite or beryllia or zirconia)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 16:50
S31	61	((piezoelectric or PZT)) and flatness and porosity and (perovskite or beryllia or zirconia or bismuth or tungsten or alumina or mullite)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/25 15:53
S32	305	264/614.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/25 15:53
S33	105	264/671.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/25 15:53

## EAST Search History

S34	308	310/363.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/06 08:48
S35	273	310/364.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/06 08:48
S36	0	"10722157"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 09:02
S37	1	"10/722157"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 09:02
S38	3	"11034321"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 09:02
S39	212706	(piezoelectric or PZT)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 09:02
S40	33880	(piezoelectric or PZT) and actuator	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 09:02
S41	2038	(piezoelectric or PZT) and actuator and (roughness or flatness)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 09:02

## EAST Search History

S42	868	(piezoelectric or PZT) and actuator and (flatness)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 09:02
S43	1	(piezoelectric or PZT) and actuator and (flatness) and unevenness	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 09:02
S44	245	(piezoelectric or PZT) and actuator and (flatness) and dielectric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 09:02
S45	124	(piezoelectric or PZT) and actuator and (flatness) and dielectric and ceramic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 09:02
S46	25	((piezoelectric or PZT) adj actuator) and (flatness) and dielectric and ceramic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 09:02
S47	1	((piezoelectric or PZT) adj actuator) and (flatness) and dielectric and ceramic and porosity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 09:02
S48	244	((piezoelectric or PZT) adj actuator) and (flatness)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 09:03
S49	25	((piezoelectric or PZT) adj actuator) same (flatness)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 09:03

## EAST Search History

S50	283	((piezoelectric or PZT) adj actuator) and zirconia	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 09:03
S51	153	((piezoelectric or PZT) adj actuator) and zirconia and crystal	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 09:03
S52	16	((piezoelectric or PZT) adj actuator) and zirconia and crystal and flatness	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 09:03
S53	106	264/671.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 09:03
S54	42	((piezoelectric or PZT) adj actuator) and "264"/\$8.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 09:03
S55	2	((piezoelectric or PZT) adj actuator) and "264"/\$8.ccls. and flatness	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 09:03
S56	30	((piezoelectric or PZT)) and "264"/\$8.ccls. and flatness	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 09:03
S57	6	("4019915"   "4078938"   "4255272"   "4766671"   "5085720").PN. OR ("5527501").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/19 09:03
S58	58	("3948706"   "4137628"   "4345955"   "4490429"   "4510000"   "4620264"   "4641425"   "4654095"   "4680859").PN. OR ("4766671").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/19 09:03

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S59	12	("3948706"   "4137628"   "4345955"   "4490429"   "4510000"   "4620264"   "4641425"   "4654095"   "4680859").PN. OR ("4766671").URPN. and flatness	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/19 09:03
S60	10	("3948706"   "4137628"   "4345955"   "4490429"   "4510000"   "4620264"   "4641425"   "4654095"   "4680859").PN. OR ("4766671").URPN. and flatness and porosity	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/19 09:03
S61	7	((piezoelectric or PZT) adj actuator) and flatness and porosity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 09:03
S62	7	((piezoelectric or PZT)) and flatness.clm. and porosity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 09:03
S63	2	((piezoelectric or PZT)) and flatness.clm. and porosity.clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 09:03
S64	104	((piezoelectric or PZT)) and flatness and porosity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 09:03
S65	35	((piezoelectric or PZT)) and flatness and porosity and (perovskite or beryllia or zirconia)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 09:03
S66	62	((piezoelectric or PZT)) and flatness and porosity and (perovskite or beryllia or zirconia or bismuth or tungsten or alumina or mullite)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 09:03

## EAST Search History

S67	308	264/614.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 09:03
S68	106	264/671.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 09:03
S69	320	310/363.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 09:03
S70	284	310/364.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 09:03
S71	0	"10722157"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S72	1	"10/722157"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S73	4	"11034321"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S74	222725	(piezoelectric or PZT)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41

## EAST Search History

S75	36621	(piezoelectric or PZT) and actuator	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S76	2258	(piezoelectric or PZT) and actuator and (roughness or flatness)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S77	969	(piezoelectric or PZT) and actuator and (flatness)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S78	1	(piezoelectric or PZT) and actuator and (flatness) and unevenness	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S79	274	(piezoelectric or PZT) and actuator and (flatness) and dielectric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S80	132	(piezoelectric or PZT) and actuator and (flatness) and dielectric and ceramic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S81	26	((piezoelectric or PZT) adj actuator) and (flatness) and dielectric and ceramic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S82	1	((piezoelectric or PZT) adj actuator) and (flatness) and dielectric and ceramic and porosity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41

## EAST Search History

S83	274	((piezoelectric or PZT) adj actuator) and (flatness)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S84	25	((piezoelectric or PZT) adj actuator) same (flatness)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S85	318	((piezoelectric or PZT) adj actuator) and zirconia	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S86	173	((piezoelectric or PZT) adj actuator) and zirconia and crystal	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S87	17	((piezoelectric or PZT) adj actuator) and zirconia and crystal and flatness	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S88	110	264/671.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S89	46	((piezoelectric or PZT) adj actuator) and "264"/\$8.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S90	3	((piezoelectric or PZT) adj actuator) and "264"/\$8.ccls. and flatness	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41

## EAST Search History

S91	31	((piezoelectric or PZT)) and "264"/\$8.ccls. and flatness	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S92	6	("4019915"   "4078938"   "4255272"   "4766671"   "5085720").PN. OR ("5527501").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/02/20 13:41
S93	59	("3948706"   "4137628"   "4345955"   "4490429"   "4510000"   "4620264"   "4641425"   "4654095"   "4680859").PN. OR ("4766671").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/02/20 13:41
S94	12	("3948706"   "4137628"   "4345955"   "4490429"   "4510000"   "4620264"   "4641425"   "4654095"   "4680859").PN. OR ("4766671").URPN. and flatness	US-PGPUB; USPAT; USOCR	OR	OFF	2007/02/20 13:41
S95	10	("3948706"   "4137628"   "4345955"   "4490429"   "4510000"   "4620264"   "4641425"   "4654095"   "4680859").PN. OR ("4766671").URPN. and flatness and porosity	US-PGPUB; USPAT; USOCR	OR	OFF	2007/02/20 13:41
S96	7	((piezoelectric or PZT) adj actuator) and flatness and porosity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S97	7	((piezoelectric or PZT)) and flatness.clm. and porosity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S98	2	((piezoelectric or PZT)) and flatness.clm. and porosity.clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S99	109	((piezoelectric or PZT)) and flatness and porosity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41

## EAST Search History

S10 0	36	((piezoelectric or PZT)) and flatness and porosity and (perovskite or beryllia or zirconia)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S10 1	66	((piezoelectric or PZT)) and flatness and porosity and (perovskite or beryllia or zirconia or bismuth or tungsten or alumina or mullite)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S10 2	314	264/614.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S10 3	110	264/671.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S10 4	328	310/363.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S10 5	299	310/364.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S10 6	0	"10722157"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S10 7	222725	(piezoelectric or PZT)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41

## EAST Search History

S10 8	36621	(piezoelectric or PZT) and actuator	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S10 9	2258	(piezoelectric or PZT) and actuator and (roughness or flatness)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S11 0	969	(piezoelectric or PZT) and actuator and (flatness)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S11 1	1	(piezoelectric or PZT) and actuator and (flatness) and unevenness	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S11 2	274	(piezoelectric or PZT) and actuator and (flatness) and dielectric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S11 3	1	((piezoelectric or PZT) adj actuator) and (flatness) and dielectric and ceramic and porosity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S11 4	274	((piezoelectric or PZT) adj actuator) and (flatness)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S11 5	318	((piezoelectric or PZT) adj actuator) and zirconia	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41

## EAST Search History

S11 6	173	((piezoelectric or PZT) adj actuator) and zirconia and crystal	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S11 7	7	((piezoelectric or PZT)) and flatness.clm. and porosity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S11 8	314	264/614.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S11 9	110	264/671.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S12 0	328	310/363.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S12 1	299	310/364.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S12 2	1	"10/722157"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S12 3	4	"11034321"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41

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S12 4	26	((piezoelectric or PZT) adj actuator) and (flatness) and dielectric and ceramic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S12 5	25	((piezoelectric or PZT) adj actuator) same (flatness)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S12 6	17	((piezoelectric or PZT) adj actuator) and zirconia and crystal and flatness	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S12 7	46	((piezoelectric or PZT) adj actuator) and "264"/\$8.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S12 8	3	((piezoelectric or PZT) adj actuator) and "264"/\$8.ccls. and flatness	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S12 9	31	((piezoelectric or PZT)) and "264"/\$8.ccls. and flatness	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S13 0	6	("4019915"   "4078938"   "4255272"   "4766671"   "5085720").PN. OR ("5527501"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/02/20 13:41
S13 1	59	("3948706"   "4137628"   "4345955"   "4490429"   "4510000"   "4620264"   "4641425"   "4654095"   "4680859").PN. OR ("4766671").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/02/20 13:41
S13 2	12	("3948706"   "4137628"   "4345955"   "4490429"   "4510000"   "4620264"   "4641425"   "4654095"   "4680859").PN. OR ("4766671").URPN. and flatness	US-PGPUB; USPAT; USOCR	OR	OFF	2007/02/20 13:41

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S13 3	10	("3948706"   "4137628"   "4345955"   "4490429"   "4510000"   "4620264"   "4641425"   "4654095"   "4680859").PN. OR ("4766671").URPN. and flatness and porosity	US-PGPUB; USPAT; USOCR	OR	OFF	2007/02/20 13:41
S13 4	7	((piezoelectric or PZT) adj actuator) and flatness and porosity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S13 5	2	((piezoelectric or PZT)) and flatness.clm. and porosity.clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S13 6	36	((piezoelectric or PZT)) and flatness and porosity and (perovskite or beryllia or zirconia)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S13 7	66	((piezoelectric or PZT)) and flatness and porosity and (perovskite or beryllia or zirconia or bismuth or tungsten or alumina or mullite)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S13 8	132	(piezoelectric or PZT) and actuator and (flatness) and dielectric and ceramic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41
S13 9	110	264/671.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:48
S14 0	109	((piezoelectric or PZT)) and flatness and porosity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:41

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S14 1	653	264/272.11.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:51
S14 2	1	10/722157	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 13:52